

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 16665416

Frame	: 184LP	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 6.10 A	Protection degree	: IP55
L. R. Amperes	: 45.7 A	Cooling method	: IC411 - TEFC
LRC	: 7.5x(Code J)	Mounting	: W-6
No load current	: 2.25 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3495 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 2.92 %	Starting method	: Direct On Line
Rated torque	: 1.04 kgfm	Approx. weight ³	: 70.0 kg
Locked rotor torque	: 229 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0080 kgm ²		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	85.5	87.5	88.5	Max. traction	: 0 kgf
Power Factor	0.00	0.70	0.81	0.86	Max. compression	: 0 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 C3	7306BECB
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	13463 h	8437 h
Lubricant amount	:	5 g	7 g
Lubricant type	:	Mobil Polyrex EM	

Notes
IN LINE EXTRA THRUST
NEMA Premium Efficiency

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page Revision 1 / 2		
Checked by				
Date	17/07/2026			

LOAD PERFORMANCE CURVE

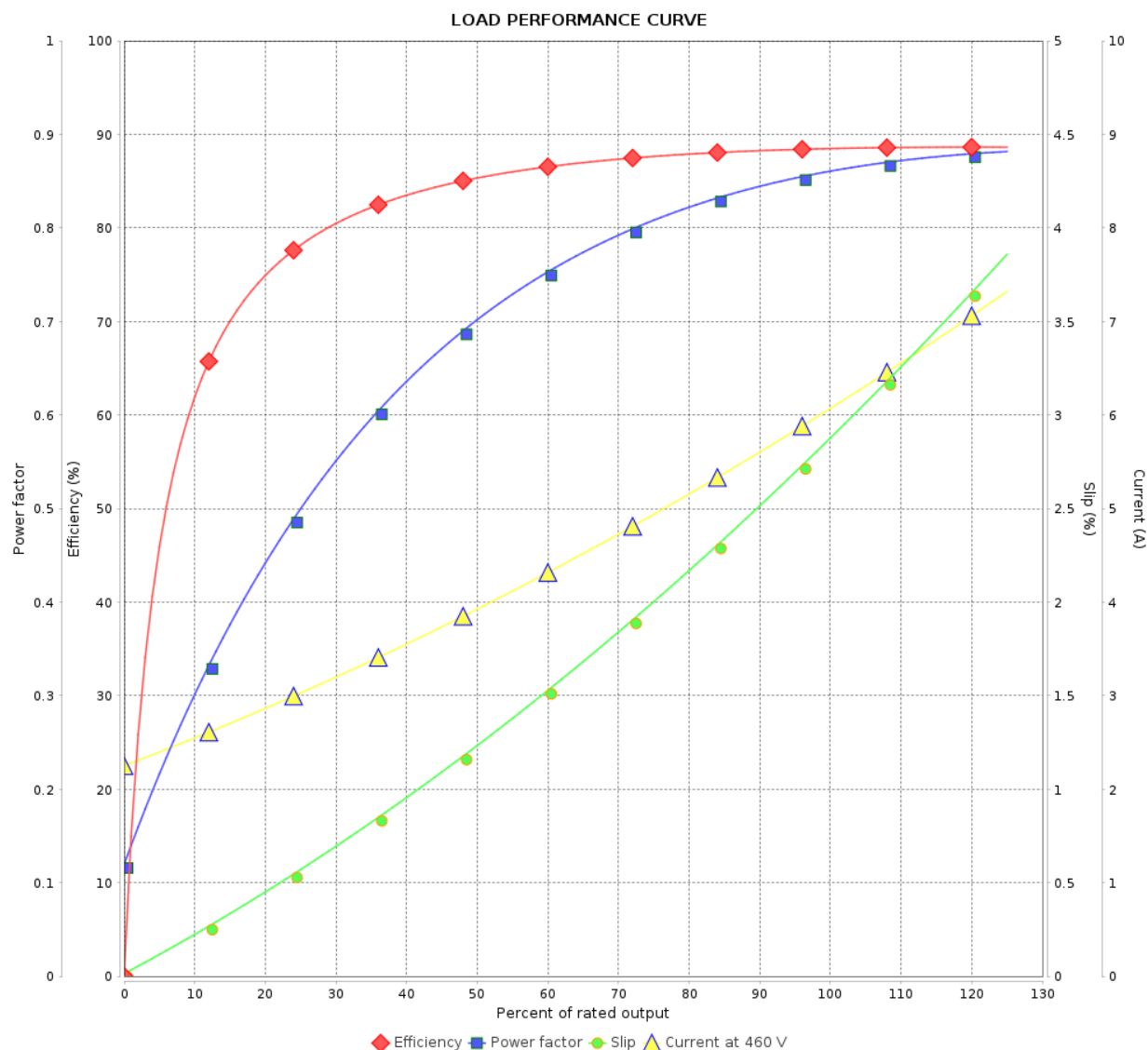
Three Phase Induction Motor - Squirrel Cage



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Product line : W21 In Line Extra Thrust NEMA
Premium Efficiency Three-Phase

Product code : 16665416



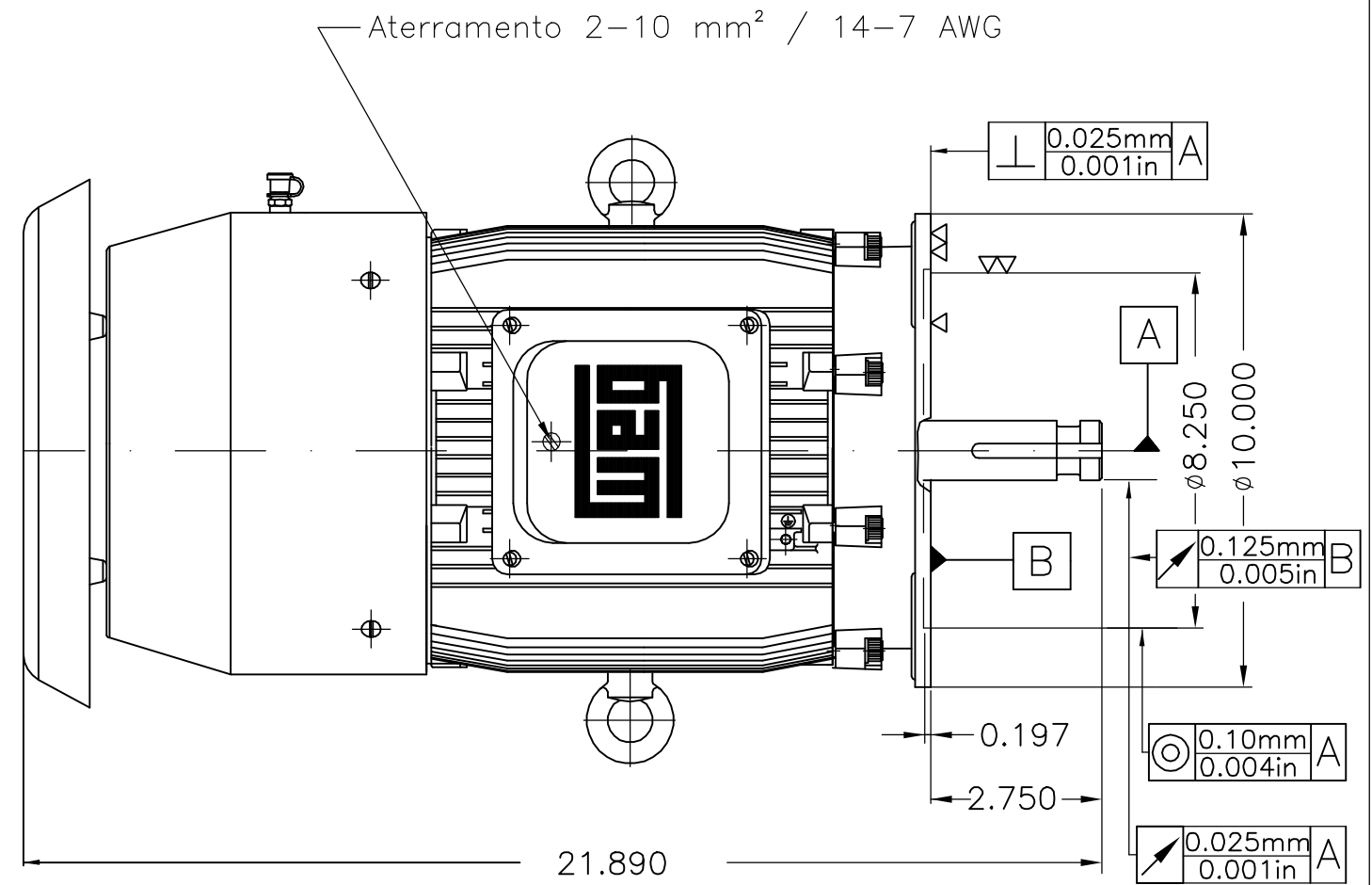
Performance : 460 V 60 Hz 2P

Rated current : 6.10 A
LRC : 7.5
Rated torque : 1.04 kgfm
Locked rotor torque : 229 %
Breakdown torque : 330 %
Rated speed : 3495 rpm

Moment of inertia (J) : 0.0080 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 2Revision		
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MOTOR DEVE SER LIGADO APENAS NA
POSIÇÃO VERTICAL
MOTOR MUST BE ENERGIZED ONLY IN THE
VERTICAL POSITION



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